

## CLAIMS

1. An optoelectronic module comprising:

a housing defining first and second elongated openings, the openings being generally parallel, adjacent openings and each opening designed to receive in nesting engagement one of an optical transmitter package and an optical receiver package;

each of the first and second openings having optoelectronic circuitry therein for receiving mating optoelectronic circuitry mounted on received optoelectronic packages; and

each of the first and second openings further defining a first and a second channel, the first and second channels each being constructed and positioned to slideably receive therein a ferrule formed on the received optoelectronic packages.

2. An optoelectronic module as claimed in claim 1 further including a guide affixed to the housing adjacent each of the first and second openings, the guide defining the upper and lower channels.

3. An optoelectronic module as claimed in claim 1 wherein the optoelectronic circuitry in each of the first and second openings includes electrical connections for each of an optical transmitter package and an optical receiver package.

4. An optoelectronic module as claimed in claim 1 further including an indicator light associated with each of the first and second openings to indicate that an inserted or nested package is seated properly in the associated opening.

5. An optoelectronic module comprising:

a housing defining first and second elongated openings, the openings being generally parallel, adjacent openings and each opening designed to receive in nesting engagement one of an optical transmitter package and an optical receiver package;

each of the first and second openings having optoelectronic circuitry therein for receiving mating optoelectronic circuitry mounted on received optoelectronic packages; and

a guide mounted adjacent to each of the first and second openings and defining an upper and a lower channel, the upper and lower channels each being constructed and positioned to slideably receive therein a ferrule formed on the received optoelectronic packages.

6. An optoelectronic module as claimed in claim 5 wherein the optoelectronic circuitry in each of the first and second openings includes electrical connections for each of an optical transmitter package and an optical receiver package.

7. An optoelectronic module as claimed in claim 5 further including an indicator light associated with each of the first and second openings to indicate that an inserted or nested package is seated properly in the associated opening.

8. An optoelectronic module comprising:

a housing defining first and second elongated openings, the openings being generally parallel, adjacent openings and each opening designed to receive in nesting engagement one of an optical transmitter package and an optical receiver package;

each of the first and second openings having optoelectronic circuitry therein for receiving mating optoelectronic circuitry mounted on received optoelectronic packages;

a guide mounted adjacent to each of the first and second openings and defining an upper and a lower channel;

an optoelectronic transmitter package including an elongated housing designed to be nestingly engaged in one of the first and second openings and having a ferrule formed along one of an upper and a lower side, the ferrule being designed to be slideably engaged in one of the upper and lower channels of one of the first and second openings; and

an optoelectronic receiver package including an elongated housing designed to be nestingly engaged in another of the first and second openings and having a ferrule formed along one of an upper and a lower side, the ferrule being designed to be

slideably engaged in one of the upper and lower channels of the another of the first and second openings.

9. An optoelectronic module as claimed in claim 8 wherein the optoelectronic circuitry in each of the first and second openings includes electrical connections for each of the optical transmitter package and the optical receiver package.

10. An optoelectronic module as claimed in claim 8 further including an indicator light associated with each of the first and second openings to indicate that the one inserted or nested transmitter and receiver package is seated properly in the associated opening.